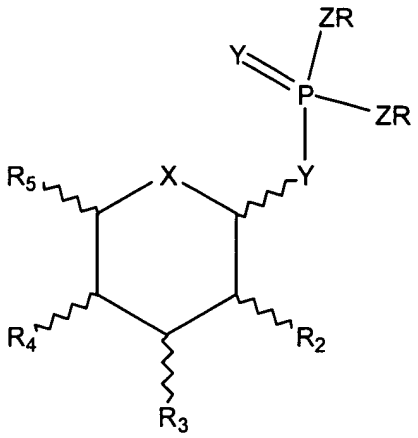
Clean Claims

1. **(amended)** A compound represented by structure **1**:



1

wherein

X represents O;

Y represents independently for each occurrence O;

Z represents independently for each occurrence O;

R is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aralkyl, heteroaryl, and heteroaralkyl;

R' is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl;

R_2, R_3, and R_4 are independently selected from the group consisting of R_6, -OR', -SR', -NR'$_2$, -OSO_3H, and -OPO_3H_2;

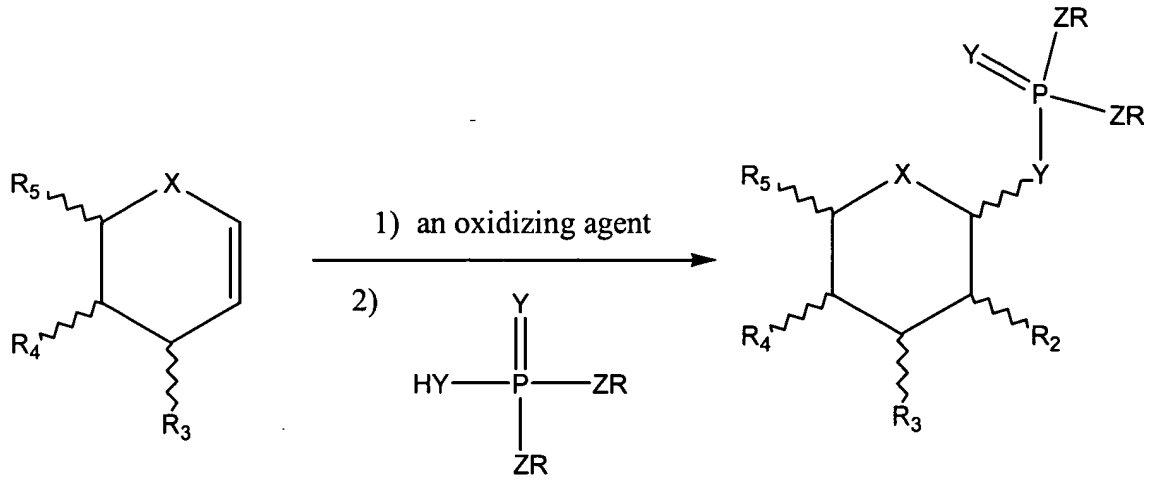
R_5 is selected from the group consisting of R_6, -$(CR_2)_nOR'$, -$(CR_2)_nSR'$, and -$(CR_2)_nNR'_2$;

R_6 is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl;

and

n is an integer selected from the range 0 to 10 inclusive.

42. (**amended**) A method of synthesizing a compound represented by **1**, wherein said method is represented by the following scheme:



1

wherein

X represents O;

Y represents independently for each occurrence O;

Z represents independently for each occurrence O;

the oxidizing agent is selected from the group consisting or dioxiranes, percarboxylates, and persulfates;

R is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl;

R' is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl;

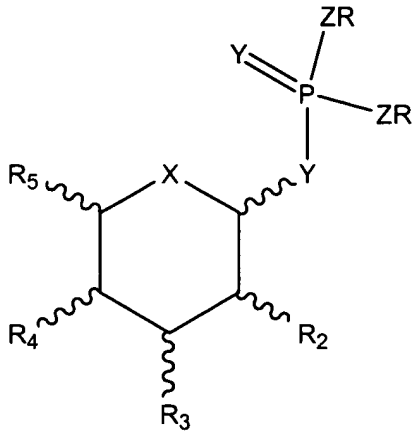
R_2 is OR';

R_3, and R_4 are independently selected from the group consisting of R, -OR', -SR', -NR'$_2$, -OSO_3H, and -OPO_3H_2;

R_5 is selected from the group consisting of R, $-(CR_2)_nOR'$, $-(CR_2)_nSR'$, and $-(CR_2)_nNR'_2$; and

n is an integer selected from the range 0 to 10 inclusive.

45. (**new**) A compound represented by structure **2**:



2

wherein

X represents O;

Y represents independently for each occurrence O;

Z represents independently for each occurrence O;

R represents independently for each occurrence aryl;

R' is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl;

R_2 is selected from the group consisting of R_6, -OR', -SR', $-NR'_2$, $-OSO_3H$, $-OPO_3H_2$;

R_3, and R_4 are independently selected from the group consisting of R_6, $-OR_7$, -SR', $-NR'_2$, $-OSO_3H$, and $-OPO_3H_2$;

R_5 is selected from the group consisting of R_6, $-(CR_2)_nOR_7$, $-(CR_2)_nSR'$, and $-(CR_2)_nNR'_2$;

R_6 is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl;

R_7 is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, heteroaryl, heteroaralkyl, and sulfonyl;

and

n is an integer selected from the range 0 to 10 inclusive.